

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF THE CLAIMS

1. (Currently Amended) A ~~[[Bus]]~~ bus bar connection for a gas-insulated switchboard system, ~~[[with]]~~ comprising:

at least two switchboard sections ~~that are both~~ filled with insulating gas, ~~[[and]]~~ from each of which a bus bar tube extends so as to be gastight, the bus bar tubes being connectable to one another through at least one electrical coupling element, and with bellows that ~~[[can]]~~ are configured to be installed between the switchboard sections and enclose the electrical connection element so that it is gastight,

wherein at least one of the two bus bar tubes ~~or both bus bar tubes can~~ is configured to be filled with insulating gas.

2. (Currently Amended) ~~Gas-insulated switchboard system, in particular a~~ A gas-insulated ~~medium-voltage~~ switchboard system, comprising: ~~[[with]]~~

at least two switchboard sections ~~that are both~~ filled with insulating gas, ~~[[and]]~~ from each of which at least one bus bar tube extends so as to be gastight, the bus bar tubes being connected to one another through at least one electrical coupling element, with bellows ~~that can be~~ installed between the switchboard sections and ~~enclose~~ enclosing the electrical connection element so that it is gastight,

wherein the bellows and at least one of the two bus bar tubes ~~or both the bus bar tubes~~ are filled with insulating gas.

3. (Currently Amended) ~~The~~[[Bus]] bus bar connection ~~as defined in~~ of Claim 1, wherein ~~the~~ an end of one of the bus bar tubes or ~~the~~ ends of the two bus bar tubes extend into ~~the~~ an area that is enclosed by the bellows so that the insulating gas can flow into the bellows through one of the bus bar tubes or through the two bus bar tubes so as to fill the bellows with gas.

4. (Currently Amended) ~~The~~[[Bus]] bus bar connection ~~as defined in~~ of Claim 1, wherein the electrical connection element is a clamp that incorporates tension springs or tension washers, which is pressed against ~~the~~ inside walls of the bus bar tubes; and

~~in that~~ the clamp forms an electrically conductive connection, which is not a mechanical seal, between the bus bar tubes so that the insulating gas can flow from one bus[[t]] bar tube into the other bus bar tube as well as into ~~the~~ an interior of the bellows.

5. (Currently Amended) ~~The~~[[Bus]] bus bar connection ~~as defined in~~ of Claim 1, wherein the electrical connection element is arranged at ~~the~~ an end of ~~[[a]]~~ one of the bus bar tubes so as to be axially displaceable.

6. (Currently Amended) ~~The~~[[Bus]] bus bar connection ~~as defined in~~ of Claim 1, wherein the electrical connection element forms an electrically conductive clamped connection between the switchboard sections.

7. (Currently Amended) ~~The~~[[Bus]] bus bar connection ~~as defined in~~ of Claim 1, wherein the bellows are of metal₁[[;]] and

~~in that~~ the bellows incorporates sealing elements and attachment elements ~~that~~
~~can be configured to be~~ installed from outside the bellows, ~~these forming~~ and to form a
positive, force-derived seal with the outside walls of the switchboard sections.

8. (Currently Amended) The ~~[[Gas]]~~ gas insulated switchboard system as
~~defined in~~ of Claim 2, wherein ~~[[the]]~~ an end of one of the bus bar tubes or ~~[[the]]~~ ends
of the two bus bar tubes extend into ~~[[the]]~~ an area that is enclosed by the bellows so
that the insulating gas can flow into the bellows through one of the bus bar tubes or
through the two bus bar tubes so as to fill the bellows with gas.

9. (Currently Amended) The ~~[[Gas]]~~ gas insulated switchboard system as
~~defined in~~ of Claim 2, wherein the electrical connection element is a clamp that
incorporates tension springs or tension washers, which is pressed against ~~[[the]]~~ inside
walls of the bus bar tubes, [[;]] and

~~in that~~ the clamp forms an electrically conductive connection, which is not a
mechanical seal, between the bus bar tubes so that the insulating gas can flow from
one bus~~[[t]]~~ bar tube into the other bus bar tube as well as into the interior of the
bellows.

10. (Currently Amended) The ~~[[Gas]]~~ gas insulated switchboard system as
~~defined in~~ of Claim 2, wherein the electrical connection element is arranged at ~~[[the]]~~
an end of ~~[[a]]~~ one of the bus bar tubes so as to be axially displaceable.

11. (Currently Amended) The ~~[[Gas]]~~ gas insulated switchboard system as
~~defined in~~ of Claim 2, wherein the electrical connection element forms an electrically
conductive clamped connection between the switchboard sections.

12. (Currently Amended) The ~~[[Gas]]~~ gas insulated switchboard system as defined in of Claim 2, wherein the bellows are of metal, ~~[[;]]~~ and

~~in that~~ the bellows incorporates sealing elements and attachment elements ~~that~~ can be configured to be installed from outside the bellows, ~~these forming~~ and to form a positive, force-derived seal with ~~[[the]]~~ outside walls of the switchboard sections.

13. (New) The bus bar connection of Claim 1, wherein the bellows are configured to be filled with insulating gas after installation of the bellows.

14. (New) A bus bar connection for a gas-insulated switchboard system, comprising:

a first switchboard section including a first hollow bus bar extending from a main body of the first switchboard section, the first bus bar and the first switchboard section each being gas tight, the first switchboard section filled with a first insulating gas;

a second switchboard section including a hollow second bus bar extending from a main body of the second switchboard section, the second bus bar and the second switchboard section each being gas tight, the second switchboard section filled with a second insulating gas and the second bus bar filled with a third insulating gas;

an electrical coupling element configured to electrically connect the first bus bar to the second bus bar; and

a bellows configured to be installed between the first and second switchboards, and enclose a connection between the first and second bus bars in a gas tight manner, the second bus bar configured to fill the connection and the bellows with the third insulating gas after installation of the bellows.